HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SEC Field Site No.	CTION 117-B	OAHP No.	Date Recorde	ed 18-Dec-98	State of V
Site Name Historic	Exhaust Air Filter Build	ding	Date Necords	10-060-30	111 21st
Common	EXTRAGST 7 III T III CT Dull	unig			Olympia,
Field Recorder	Jim Sharpe				o.ypia,
Owner's Name		nergy, Richland Operations	Office		LOCATION SECTION
Address	P.O. Box 550				Address Building,
City/State/Zip Code	Richland, WA 99352				City/Town/County/Zip Code
					Twp 13 N. Range 25 E. Section
Status		Photo	graphy		Tax No./Parcel No.
x Survey/Inventory		Photoc	graphy Neg. No. 106669-22	cn	Quadrangle or map name Vernita B
National Register			lo. & Frame No.)	<u> </u>	UTM References Zone 11
State Register		View o	•		Plat/Block/Lot
Determined Eligib	le	Date	-		Supplemental Map(s)
Determined Not E		24.0			
Other (HABS, HAI					
Local Designation					
Loodi Dooigilation					
Classification	District	Site	uilding x Structure	Object	
District Status	x NR	SR LF	<u> </u>		
Contributing		on-Contributing			Service Control of the Control of th
District/Thematic Nor			ect and Cold War Historic Dis	trict	
Diotrios i nomatio ito		mora One Mannatan Froje	Tot and Cold Wal Filotofic Dio	inot	
Description Section					
Materials & Features/	Structural Types	Roof 1	Type		
Building Type	Industry		able Hip		
Plan	industry	x FI			
Structural System			onitor Other (specify	٨	
No. of Stories			ambrel	,	
No. or Stories			hed		
Cladding (exterior Wa	II Surfaces	3	ieu		
Log	iii Suriaces	Doof I	Material		
	Pidin a				The second secon
Horizontal Wood S	olding 		ood Shingle ood Shake		
Rustic/Drop					
Clapboard			omposition		
Wood Shingle			ate		
Board and Batten			ar/Built-up		
Vertical Board		Ti			
Asbestos/Asphalt			etal (specify)		High Styles/Forms (Check one or m
Brick			ther (specify)		Greek Revival
Stone		N	ot visible		Gothic Revival
Stucco			Late.		Italianate
Terra Cotta	5	Found			Second Empire
x Concrete/Concrete		Lc			Romanesque Revival
Vinyl/Aluminum Si	ding		ost & Pier Block		Stick Style
Metal (specify)			tone Poured		Queen Anne
Other (specify)			rick Other (specify	')	Shingle Style
		<u> X</u> N	ot visible		Colonial Revival
					Beaux Arts/Neoclassical
	(Include detailed desc	•			Chicago/Commercial Style
Integrity	Description of Physi				American Foursquare
	I <u>nta</u>	ict <u>Slight</u>	Mo <u>dera</u> te	Ex <u>tensi</u> ve	Mission Revival
Changes to plan					
Changes to windows					Vernacular House Types
Changes to original cla	dding				Gable Front
Changes to interior					Gable Front and Wing
Other (specify)		」		Х	Side Gable
Buried in place		- 			

State of Washington, Department of Community Development Office of Archaeology and Historic Preservation 111 21st Avenue Southwest, Post Office Box 48343 Olympia, Washington 98504-8343 (206)753-4011

Address	Building, 1	117-B, 100-l	B Area				
City/Town/County/Zip Cod	le	Richland/	Benton (County/99	352		
Twp 13 N. Range 25 E.	Section	11 I/4 S	ection	NW	1/4 1/4 Sec	SW	
Tax No./Parcel No.	-	,			Acreage		
Quadrangle or map name	Vernita Br	idge, 1986					
UTM References Zone	11	Easting	29748	0	Northing	5167160	
Plat/Block/Lot					_		
Supplemental Man(s)							



High Styles/Forms (Check one or more of the following)					
Greek Revival	S	Spanish Colonial Revival/Mediterranean			
Gothic Revival	Т	Tudor Revival			
Italianate	C	Craftsman/Arts & Crafts			
Second Empire	В	Bungalow			
Romanesque Revival	P	Prairie Style			
Stick Style	А	Art Deco/Art Moderne			
Queen Anne	R	Rustic Style			
Shingle Style	Ir	nternational Style			
Colonial Revival	Ν	Northwest Style			
Beaux Arts/Neoclassical	C	Commercial Vernacular			
Chicago/Commercial Style	R	Posidential Vernacular (see helow)			

Shingle Style	International Style
Colonial Revival	Northwest Style
Beaux Arts/Neoclassical	Commercial Vernacular
Chicago/Commercial Style	Residential Vernacular (see below)
American Foursquare	x Other (specify)
Mission Revival	Industrial Vernacular
Vernacular House Types Gable Front Gable Front and Wing Side Gable	Cross Gable Pyramidal/Hipped X Other (specify) Industrial Vernacular

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

Agriculture	Conservation	Politics/Government/Law
Architecture/Landscape Architecture	Education	Religion
Arts	Entertainment/Recreation	Science & Engineering
Commerce	Ethnic Heritage (specify)	Social Movements/Organizations
Communications	Health/Medicine	Transportation
Community Planning/Development	Manufacturing/Industry	x Other (specify) Manhattan Project & Cold War Era
	Military	x Study Unit Sub-Theme(s) Waste Management (air)

Statement of Significance

Date of Construction		1961 Architect/Engineer/Builder General Electric Company	
Х	In the opinion of the surveyo	, this property appears to meet the criteria of the National Register of Historic F	- laces
Х	In the opinion of the surveyo	this property is located in a potential historic district (National and/or local).	

The 117-B Exhaust Air Filter Building (132-B-4) filtered ventilation air from the confinement zone of the 105-B Reactor Building prior to its discharge to the atmosphere. During operations it received exhaust fan discharge air through an inlet duct, filtered the air through both absolute and activated charcoal filtersthen discharged it thourgh the exhaust stack (116-B). The facility operated from 1961 to 1968.

It is the conclusion of the U.S. Department of Energy that the 117-B Exhaust Filter Building, through its role in waste management, is eligible for inclusion in the National Register of Historic Places under Criterion A as a contributing property within the Hanford Site Manhattan Project and Cold War Era Historic District.

Description of Physical Appearance

The 117-B Exhaust Air Filter Building was a single story building located about 100 feet directly south of the 105-B Reactor Building. It was constructed of reinforced concrete almost completely below grade. It contained two identical filter cells with an operating gallery between the cells. Each filter cell contained two filter banks. The first filter cell was an absolute type filter and the second was activated charcoal. The roof was constructed of a steel frame with large steel hatch covers that served as doors. The walls were constructed of reinforced concrete. The facility was 8-feet above grade, 27-feet below grade, 57-feet long, and 37-feet wide. The inlet tunnel received exhust air from the reactor building and was about 110 feet long. The outlet tunnel lead to the exhaust stack and was about 80 feet long. The facility was decommissioned and burieed in place in 1987 and 1988.

Major Bibliographic References

AEC-GE. 1964. Catalog of Hanford Buildings and Facilities 100 Areas. GEH-26434. Richland, Washington. UNC Nuclear Industries. 1984. 100 Deactivated Area Pictorial Review. UNI-2780. Richland, Washington. Westinghouse Hanford Company. 1994. 100-B Area Technical Baseline Report. WHC-SD-EN-TI-220. Richland, Washington.

Reference drawings: H-1-19835 and H-1-19836